#### PATENT COOPERATION TREATY

#### From the INTERNATIONAL SEARCHING AUTHORITY

To: JOSEPH R. BAKER, JR. FISH & RICHARDSON, P.C. 12390 EL CAMINO REAL SAN DIEGO, CA 92130	PCT  NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION (PCT Rule 44.1)			
·	Date of mailing (day/month/year) 1.0 MAY 2005			
Applicant' s or agent's f ile reference 15670-052WO1	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No. PCT/US04/21450	International filing date			
Applicant THE REGENTS OF THE UNIVERSITY OF CALIFORNIA	(day/month/year) 02 July 2004 (02.07.2004)			
1. The applicant is hereby notified that the international sea Authority have been established and are transmitted here Filling of amendments and statement under Article 19 The applicant is entitled, if he so wishes, to amend the circumstance.	•			
	s normally two months from the date of transmittal of the international			
Where? Directly to the International Bureau of WIP	O, 34 chemin des Colombettes			
1211 Geneva 20, Switzerland, Facsimile No.: +41 22 740 14 35  For more detailed instructions, see the notes on the accompanying sheet.				
The applicant is hereby notified that no international search report will be established and that the declaration under Article 17(2)(a) to that effect and the written opinion of the International Searching Authority are transmitted herewith.				
With regard to the protest against payment of (an) additional fee(s) under Rule 40.2, the applicant is notified that:				
request to forward the texts of both the protest and a	en transmitted to the International Bureau together with the applicant's the decision thereon to the designated Offices.			
no decision has been made yet on the protest; the ap	plicant will be notified as soon as a decision is made.			
priority claim, must reach the International Bureau as provided the technical preparations for international publication.  The applicant may submit comments on an informal basis on International Bureau. The International Bureau will send a convenience.	the written opinion of the International Searching Authority to the of such comments to all designated Offices unless an international			
before the expiration of 30 months from the priority date.	These comments would also be made available to the public but not			
(in some Offices even later); otherwise, the applicant must, with entry into the national phase before those designated Offices.	of some designated Offices, a demand for international preliminary entry into the national phase until 30 months from the priority date in 20 months from the priority date, perform the prescribed acts for			
In respect of other designated Offices, the time limit of 30 month	s (or later) will apply even if no demand is filed within 19 months.			
Charles, volume 11, National Chapters and the WIPO Internet site.	applicable time limits, Office by Office, see the PCT Applicant's			
Name and mailing address of the ISA/ US  Mail Stop PCT, Atm: ISA/US  Commissioner for Patents  P.O. Box 1450  Alexandria, Virginia 22313-1450	James Martinell			
Pacsimile No. (703) 305-3230	Telephone No. (703) 308-0196			

Pacsimile No. (703) 305-3230
Form PCT/ISA/220 (January 2004)

(See notes on accompanying sheet)

### PATENT COOPERATION TREATY

## **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's o r agent' s file reference 15670-052WO1	FOR FURTHER		Form PCT/ISA/220
International application No.	ACTION International filing date (day/i	nonth (veor)	re applicable, item 5 below.  (Earliest) Priority Date (day/month/year)
PCT/US04/21450	02 July 2004 (02.07.2004)	yeary	03 July 2003 (03.07.2003)
Applicant THE REGENTS OF THE UNIVERSITY	OF CALIFORNIA		
This international search report has been according to Article 18. A copy is being	prepared by this International transmitted to the Internation	Searching Au al Bureau.	thority and is transmitted to the applicant
This international search report consists			
	by a copy of each prior art do	ocument cited i	in this report.
Basis of the Report     a. With regard to the language, the language in which it was filed, ur	international search was carried dess otherwise indicated under	out on the bas	is of the international application in the
To this Aumor	ity (Rule 23.1(b)).		ation of the international application
b. With regard to any nucleotic	le and/or amino acid sequence	disclosed in th	e international application, see Box No. I.
2. Certain claims were found	unsearchable (See Box No. II)		
<ul> <li>3. Unity of invention is lacking</li> <li>4. With regard to the title,</li> </ul>	g (See Box No. III)		
the text is approved as submi	and has also see the con-		
! ! (		•	
and text has been established	by this Authority to read as foll	ows:	
		•	
5. With regard to the abstract,			
the text is approved as submitt	ted by the applicant		
1 1	- <del>-</del>	·:- A	
, within one month from t	he date of mailing of this intern	ational search	e it appears in Box No. IV. The applicant report, submit comments to this Authority.
6. With regard to the drawings, a. the figure of the drawings to be put			
a. the figure of the drawings to be pu as suggested by the ap		ire No	·
	opticant. thority, because the applicant fa	حد احداث	_
	thority, because the applicant ratherity, because this figure better		
b. none of the figures is to be put		er characterizes	the invention.
form PCT/ISA/210 (first sheet) (January 2004	)		

### INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/21450

A. CLA	SSIFICATION OF SUBJECT MATTER		
IPC(7)	: C12Q 1/68; C12N 9/00, 15/10, 15/11		
US CL	: 435/6, 91.2, 183; 536/23.1		
According to	International Patent Classification (IPC) or to both	national classification and IPC	
B. FIEL	DS SEARCHED	- Marie Mari	<del></del>
Minimum do	ocumentation searched (classification system follows	A Long to the state of the stat	
U.S. : 4	435/6, 91.2, 183; 536/23.1	ed by classification symbols)	
Documentati	on searched other than minimum documentation to	the extent that such documents are included	in the fields searched
			are ricids scarcings
Electronic de	ota hara consultad during the		
Please See C	ata base consulted during the international search (na continuation Sheet	ame of data base and, where practicable, sea	rch terms used)
I rease dee e	Ontinuation Sheet		
	<u> </u>		
C. DOC	UMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where		T
A, T	US 2004/0200200 A1 (DINTER AND 21 CO.	appropriate, of the relevant passages	Relevant to claim No.
, -	US 2004/0209299 A1 (PINTER et al) 21 October	2004 (21.10.2004), Abstract.	1-37
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Further of	documents are listed in the continuation of Box C.		
Sne	cial categories of cited documents:	See patent family annex.	
		"T" later document published after the inter	national filing date or priority
A document d	efining the general state of the art which is not considered to be	date and not in conflict with the applica principle or theory underlying the inver	tion but cited to understand the
of particula	r relevance		·
E " earlier appli	ication or patent published on or after the international filing date	"X" document of particular relevance; the cl	aimed invention cannot be
		considered novel or cannot be considere when the document is taken alone	d to involve an inventive step
establish the	thich may throw doubts on priority claim(s) or which is cited to publication date of another citation or other special reason (as		i
specified)	reason (as	"Y" document of particular relevance; the cl	aimed invention cannot be
O " document re	eferring to an and distant	considered to involve an inventive step combined with one or more other such of	when the document is
	eferring to an oral disclosure, use, exhibition or other means	being obvious to a person skilled in the	ert Compination
P" document pu	ublished prior to the international filing date but later than the	"&" document member of the same patent fa	
priority date	: claimed	and a same patent is	шу
pate of the actu	ial completion of the international search	Date of mailing of the international search	
		do a micrialional scarci	rehou
2 April 2005 (	24.U4.2UU)	10 MAY 2005	<u> </u>
IISM DID Jum	ing address of the ISA/US	Authorized officer	11/1/20
Comm Mail S	top PCT, Atm: ISA/US hissioner for Patents	James Martinell	was
P.O. E	Box 1450	Sames Marinien	
Alexan	ndria, Virginia 22313-1450	Telephone No. (703) 308-0196	
acsimile No. (	703) 305-3230		
m PCT/ISA/2	10 (second sheet) (January 2004)	<u></u>	

TAIMINEN A MICANA COLON	International application No.
INTERNATIONAL SEARCH REPORT	PCT/US04/21450
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Continuation of B. FIELDS SEARCHED Item 3:	
EAST, STN, immunoprecip?, dna# cdna# rna# mrna# mysleic(w)scid#	(w)nrimer# Xaing-Dong Fu Young-Soo Kwon (and
inventor name variations)	()bermore i comit world was a variet and remain fairs
	•

Form PCT/ISA/210 (extra sheet) (January 2004)

#### PATENT COOPERATION TREATY

INTERNA	TIONAL SEARC	HING AUTH	ORITY			
INTERNATIONAL SEARCHING AUTHORITY  To: JOSEPH R. BAKER, JR. FISH & RICHARDSON, P.C. 12390 EL CAMINO REAL		PCT				
SAN DIE	3GO, CA 92130	1			ITTEN OPINION OF THE ONAL SEARCHING AUTHORITY	
		•			(PCT Rule 43bis.1)	
				Date of mailing (day/month/year)	10 MAY 2005	
	t's or agent's file	e reference			FOR FURTHER ACTION See paragraph 2 below	
15670-05						
ı	onal application N	0.	International filing date	•	Priority date (day/month/year)	
Internation		fication (IPC)	02 July 2004 (02.07.200 or both national classifica	04)	03 July 2003 (03.07.2003)	
1						
Applicant	1	9/00, 13/10,	15/11 and US Cl.: 435/6,	, 91.2, 183; 536/23.1		
THE REC	GENTS OF THE	UNIVERSIT	Y OF CALIFORNIA	·		
1. This	opinion contains i	indications rel	ating to the following iten	ns:		
$\boxtimes$	Box No. I	o. I Basis of the opinion				
	Box No. II	Priority				
	Box No. III	III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	II Certain defects in the international application				
	Box No. VIII					
2. FURTHER ACTION						
If a de Intern Autho	emand for interna ational Prelimina crity other than th	ational prelimi ry Examining is one to be th	! Authority ("IPEA") ex	cept that this does to PEA has notified the	ne considered to be a written opinion of the not apply where the applicant chooses an International Bureau under Rule 66.1bis(b) ered.	
mailin	g of Form PCT/I	SA/220 or bef	re appropriate, with ame fore the expiration of 22 n	endments, before the	EA, the applicant is invited to submit to the expiration of 3 months from the date of ity date, whichever expires later.	
For fu	rther options, see	Form PCT/IS	SA/220.			
3. For fu	rther details, see	notes to Form	PCT/ISA/220.			
Name and	mailing address o	f the ISA/ US		Authorized officer	Marie All-II	
	fail Stop PCT, Attn Commissioner for Pa			ز James Martinell	moun y wat	
P	.O. Box 1450				7/6	
	lexandria, Virginia No. (703) 305-323			Telephone No. (70	3) 308-0196	

Form PCT/ISA/237 (cover sheet) (January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US04/21450

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
<u></u>
furnished subsequently to this Authority for the purposes of search.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments:
m PCT/ISA/237(Box No. D (January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/21450

. Statement			
Novelty (N)	Claims	1.27	
	Claims	1-37 NONE	
Inventive step (IS)	Claims	1-37	
	Claims	NONE	
Industrial applicability (IA)	Claima	1.27	
officerity (111)	Claims		Y
	Clanis	NONE	
Citations and explanations:			
aims 1-37 meet the criteria set out in PCT Articl n be made or used in industry.		•	<b></b>
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